

Release notes for ENDF/B Development n-048_Cd_112
evaluation

ENDF
B-VII.dev

April 26, 2017

- groupie Errors:

1. Very small elastic cross section found
0: Small elastic

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

ENDF/B Input and Output Data Filenames

ENDFB.IN

ENDFB.OUT

... [97 more lines]

- fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 10: n[multiplicity:'2'] + Cd111 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8886397.982711792 eV vs -9397104. eV!

2. Calculated and tabulated Q values disagree.
reaction label 11: n[multiplicity:'3'] + Cd110 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15862243.94763184 eV vs -1.6374e7 eV!

3. Calculated and tabulated Q values disagree.
reaction label 12: n + H1 + Ag111 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9140850.792922974 eV vs -9641904. eV!

4. Calculated and tabulated Q values disagree.
reaction label 13: n + H2 + Ag110 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15747770.1943512 eV vs -1.6265e7 eV!

5. Calculated and tabulated Q values disagree.
reaction label 14: n + H3 + Ag109 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -16299737.07066345 eV vs -1.681e7 eV!

6. Calculated and tabulated Q values disagree.
reaction label 15: Cd113 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7047996.72454834 eV vs 6539802. eV!

7. Calculated and tabulated Q values disagree.
reaction label 16: n + He4 + Pd108 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -2973210.812744141 eV vs -3479902. eV!

8. Calculated and tabulated Q values disagree.
reaction label 17: H1 + Ag112-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -2665794.657562256 eV vs -3176002. eV!

9. Calculated and tabulated Q values disagree.
reaction label 18: H2 + Ag111-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6916284.691986084 eV vs -7416804. eV!

10. Calculated and tabulated Q values disagree.
reaction label 19: H3 + Ag110-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9490537.253738403 eV vs -1.0003e7 eV!

11. Calculated and tabulated Q values disagree.
reaction label 20: He3 + Pd110-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8583322.105392456 eV vs -9104704. eV!

12. Calculated and tabulated Q values disagree.
reaction label 21: He4 + Pd109-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 3180393.2474823 eV vs 2698002. eV!

- njoy2012 Warnings:

1. Message comes from several resonance types that do not support the calculation of angular distributions. Some of them can be used if Want_SAMRL_RM or Want_SAMRML_BW are true.
reconr...reconstruct pointwise cross sections in pendf format (0): RECONR/calculation of angular distribution not installed (0)


```
---message from rdf2bw---calculation of angular distribution not installed.
      samm max legendre order:  0
```
2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (0): GROUPE/conver (0)


```
---message from conver---cannot do complete particle production for mt= 16
      only mf4/mf5 provided
```
3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (1): GROUPE/conver (0)


```
---message from conver---cannot do complete particle production for mt= 17
      only mf4/mf5 provided
```
4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (2): GROUPE/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 33
only mf4/mf5 provided

8. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided